

Danfoss DKDDPM800 VLT Flex Motion Think Differently



Danfoss DKDDPM800 VLT Flex Motion Think Differently User Manual

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Danfoss DKDDPM800 VLT Flex Motion Think Differently



Product Information

- **Specifications**

- User-friendly and open servo motion solution
- Resolver BiSS single- and multi-turn
- EnDat 2.1* and 2.2*
- Hiperface* and Hiperface DSL*
- Excellent vibration resistance
- IP67 enclosure design for high protection

Product Usage Instructions

- **Installation**

- Ensure the power source is disconnected before installation.
- Mount the servo motion solution securely in the desired location.
- Connect the necessary cables according to the provided manual.

- **Configuration**

- Follow the configuration steps outlined in the user manual.
- Set up the resolver BiSS and EnDat settings based on your requirements.

- **Operation**

- Power on the servo motion solution.
- Test the functionality by running a simple motion command.

FAQs

- **Q: What are the main benefits of this servo motion solution?**

- **A:** The product offers excellent vibration resistance and a high degree of protection with its IP67 enclosure design, making it ideal for rotating machine parts.

- **Q: What types of interfaces are supported?**

- **A:** The product supports Resolver BiSS, EnDat 2.1/2.2, Hiperface, and Hiperface DSL interfaces.

INTRODUCTION

- VLT® FlexMotion™ is a general-purpose servo drive solution.
- It consists of three different servo-drive product lines, each with its unique benefits.
- But, as they are based on the same platform, the user interface is identical, and programming, installation, and maintenance are equally quick and easy.

Developed specifically for the food and beverage, packaging, pharmaceutical, and material handling industries, VLT® FlexMotion™ consists of:

- VLT® Integrated Servo Drive ISD® 510
- VLT® Decentral Servo Drive DSD 510
- VLT® Multiaxis Servo Drive MSD 510

Mutual benefits

- **System independence** – the unique open system architecture means that all three product lines are compliant with most real-time Ethernet field buses, such as EtherCAT®, POWERLINK® and PROFINET® IRT, and 3rd-party masters can be used
- **Coherent central and decentral solutions** – provide optimal flexibility and machine design
- **Safe Torque Off (STO)** – ensures enhanced functional safety throughout the whole platform

A closer look at the VLT® Integrated Servo Drive ISD® 510

- The VLT® Integrated Servo Drive ISD® 510 is a fundamental part of a flexible, high-performance decentral servo motion solution.
- It consists of a central power supply (VLT® Servo Access Box SAB®), which generates a 565-680 V DC supply and ensures a higher power density, drive modules, and a hybrid daisy-chain cabling concept that significantly reduces the number of cables required.
- The removable VLT® Local Control Panel (LCP) ensures user-friendly operation and enables direct connection to the advanced servo drives for fast commissioning, diagnosis, and service.

A closer look at the VLT® Decentral Servo Drive DSD 510

The VLT® Decentral Servo Drive DSD 510 extends the selection of a decentral servo drive concept. It delivers a rated power of up to 4.5 kW and can be used with a wide range of PM servo motors. And, for optimal control of speed and position, it is equipped with the following feedback encoders:

- Resolver
- BiSS single- and multi-turn
- EnDat 2.1* and 2.2*
- Hiperface* and Hiperface DSL In preparation

It has excellent vibration resistance making it ideal for rotating machine parts. The IP67 enclosure design ensures a high degree of protection.

A closer look at the VLT® Multiaxis Servo Drive MSD 510

- The VLT® Multiaxis Servo Drive MSD 510 is a generic multi-axis system that allows perfect integration of decentral drives.
- It comprises a Power Supply Module (PSM 510), Drive Modules (SDM 511, SDM 512), Decentral Access Module (DAM 510), and an Auxiliary Capacitors Module (ACM 510).
- Modules are available in two frame sizes with a width of 50 mm and 100 mm.
- It supports EtherCAT®, POWERLINK®, and PROFINET® IRT Ethernet-based protocols and features an internal brake resistor and a mounting plate that includes a DC link and auxiliary voltage.
- The 'click and lock' solution for the mounting plate makes installation simple and safe.



VLT® Integrated Servo Drive ISD® 510



VLT® Decentral Servo Drive DSD 510



VLT® Multiaxis Servo Drive MSD 510

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Documents / Resources



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References

- [Global AC drive manufacturer - Danfoss Drives | Danfoss](#)
- [User Manual](#)

